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# MARKETING & TRANSPORTATION Situation



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CURRENT SERIAL RECORDS

#### MARKET FACTS

Item	: Unit or base	:	1968	:	1969	
Tt em	period	: Year	:4th qtr.	: Year	:3rd qtr.	4th qtr.
		:				
Farm-Retail Price Spreads: 1/	D - 1	:	1 100			
Retail cost		: 1,118	1,128	1,173	1,194	1,198
Farm value		: 435	434	477	492	487
Farm-retail spread		: 683	694	696	702	711
Farmer's share of retail cost	Pct.	: 39	38	41	41	41
Retail Prices: 2/		•				
All goods and services (CPI)	1957-59=100	: 121.2	123.3	127.7	128.7	130.5
All food			120.9	125.5	127.2	128.4
Food at home			117.1	121.5	123.4	124.2
Food away from home			139.4	144.6	145.8	149.0
1000 away 110m nome	;	:	137.4	144.0	145.0	147.0
Wholesale Prices: 2/		:				
Food <u>3</u> /	1957-59=100	: 112.2	113.2	119.0	120.2	122.1
Cotton products		: 105.1	105.3	105.2	105.6	106.0
Woolen products	1957-59-100	: 103.7	104.6	104.6	104.9	104.7
		:				
Agricultural Prices:		:				
Prices received by farmers	1957-59=100	: 108	108	114	115	117
Prices paid by farmers, interest,		:				
taxes and wage rates	1957-59=100	: 121	123	127	128	129
Prices of Marketing Inputs:						
Containers and packaging materials:	1957-59=100	: 111	112		115	
Fuel, power, and light						
			103		105	
Services <u>4</u> /	1937-39-100	: 137	140		147	
Hourly Earnings:		:				
Food marketing employees 5/	Dol.	: 2.67	2.72	2.84	2.84	2.89
Employees, private nonagricultural		:		_,,		,
sector 2/	Dol.	: 2.85	2.92	3.04	3.06	3.11
;		:			-,,,,	0.11
Farmers' Marketings and Income: :		:				
Physical volume of farm marketings:	1957-59=100	: 126	169	126	130	170
Cash receipts from farm marketings 6/ .:	Bil. dol.	: 44.4	45.0	47.4	48.0	47.5
Farmers' realized net income 6/:		: 14.8	14.7	16.0	16.5	16.2
- :		:				
Industrial Production: $\underline{7}/$ :		:				
Food manufacturers	1957-59=100		133:6	136.8	136.9	135.6
Textile mill products:			153.9	153.7	153.9	152.1
Apparel products:	1957-59=100	: 149.9	151.4		148.5	
Tobacco products	1957-59=100	: 120.9	118.1		117.9	
:		:				
Retail Sales: 8/	M41 3-1	.72 001	10 520	76 121	10.020	10 350
Food stores		:72,881	18,523	76,121	19,030	19,358
Eating and drinking places		:25,285	6,336	25,997	6,433	6,626
Apparel stores	Mil. dol.	:19,265	4,863	20,176	5,114	5,063
Consumers' Per Capita Income and		:				
Expenditures: 9/		:				
Disposable personal income	Dol.	: 2,933	2,991	3,098	3,140	3,171
Expenditures for goods and services:		: 2,668	2,726	2,835	2,849	2,887
Expenditures for food		: 494	498	511	510	519
Expenditures for food as percentage :		:	,,,	711	310	327
of disposable income	Pct.	: 16.8	16.6	16.5	16.2	16.4

<sup>1/</sup> For a market basket of farm foods. 2/ Dept. of Labor. 3/ Processed foods, eggs, and fresh and dried fruits and vegetables. 4/ Includes such items as rent, property insurance and maintenance, and telephone. 5/ Average hourly earnings of production workers in food processing, and nonsupervisory workers in wholesale and retail food trades, calculated from Dept. of Labor data. 6/ Quarterly data seasonally adjusted at annual rates. 7/ Seasonally adjusted, Board of Governors of Federal Reserve System. 8/ Quarterly data seasonally adjusted, Dept. of Commerce. 9/ Seasonally adjusted annual rates, calculated from Dept. of Commerce data. Percentages have been calculated from total income and expenditure data.

### MARKETING AND TRANSPORTATION SITUATION

Approved by the Outlook and Situation Board, February 11, 1970

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#### SUMMARY\*

The retail cost of a market basket of farm-originated foods rose to an annual rate of \$1,198 in the fourth quarter of 1969, up 0.3 percent from the third quarter for the smallest gain of the year. However, costs varied widely during the fourth quarter-decreasing in October, then increasing moderately in November and sharply in December. For the quarter, the retail cost averaged 6.2 percent above a year earlier, due mainly to sharp price increases for meat products, poultry and eggs, and fresh vegetables. Prices of fresh fruits declined sharply.

Gross returns to farmers (farm value) for foods in the market basket averaged \$487 in the fourth quarter-down 0.9 percent from the third quarter, but 12.3 percent above a year earlier. Prices were up sharply from 1968 for meat animals, poultry and eggs, and fresh vegetables. Prices for fresh fruit decreased.

Marketing charges, as measured by the spread between the retail cost and farm value of the market basket, averaged \$711 in the fourth quarter. This was 1.2 percent more than in the previous quarter and 2.3 percent more than a year earlier. Spreads increased from 1968 for all product groups except fats and oils. Beef contributed most to widening spreads.

In 1969, rising consumer demand resulting from increased personal incomes

and reduced supplies of some key products, boosted prices paid for market basket foods to a record level.

Increases in the market basket from 1968 to 1969 included:

- \*\* Higher retail cost, by 4.9 percent or \$55.
- \*\* Increased farm value, by 9.7 percent or \$42,
- \*\* Increased marketing spread, by 1.9 percent or \$13,
- \*\* Greater farmer's share of the market basket food dollar, up 2 cents to 41 cents.

Marketing costs are expected to increase at a faster rate this year than in 1969 as marketing firms adjust to pressures of rising costs. The anticipated increase in marketing spreads for the year will probably be greater than last year's 1.9 percent increase. As a result, the retail cost of market basket foods will increase even if returns to farmers for these foods change little from present levels. The rate of increase for the retail cost of the market basket will probably decline. The annual increase probably will average lower than last year's 4.9 percent.

<sup>\*</sup>The summary of this report and a summary table were released to the press on February 11, 1970.

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#### FARM-FOOD MARKET BASKET STATISTICS

#### Fourth Quarter 1969

Retail Cost: Reduced supplies and strong consumer demand boosted retail prices for farm-originated foods to record levels in the fourth quarter of 1969 (table 1). Although prices rose, the increase was smaller than in the second and third quarters. The rise in food prices continued a general upswing that began in late 1967.

The retail cost of the market basket of farm foods 1/ averaged \$1,198 (annual rate) in the fourth quarter of 1969--up \$4 or 0.3 percent from the previous quarter. Sharply higher prices for eggs and fresh vegetables provided most of the thrust and more than offset declining prices for meat products, poultry, and fresh fruits.

Retail costs of market basket foods varied widely in the fourth quarter. Total costs decreased in October, then increased moderately in November and sharply in December (table 2).

Compared with the fourth quarter of 1968, the retail cost of the market basket averaged 6.2 percent higher. Animal products and fresh vegetables accounted for most of the rise. Retail costs for other product groups except fresh fruit also rose.

Farm Value: The farm value of foods in the market basket was \$487 (annual rate) in the fourth quarter-0.9 percent lower than in the preceding quarter when it was the highest for the year. Lower returns to farmers for meat animals, frying chickens, and fresh fruit offset unusually sharp increases for eggs and fresh vegetables.

Despite the decline from the previous quarter-largely seasonal--returns to farmers for market basket foods in the final quarter of 1969 were up 12.3 percent from the fourth quarter of 1968. The farm value of meat animals, eggs and fresh vegetables was up nearly one-fourth. In contrast, returns for fresh fruits were down sharply.

Farm-Retail Spread: Since consumers paid more and farmers recieved less for farm foods, the marketing spread or margin rose in the fourth quarter of 1969. The farm-retail spread for market basket foods averaged \$711 in the fourth quarter--1.2 percent wider than in the previous quarter. Spreads widened for all product groups except fresh fruits and vegetables and fats and oils. They widened more for meat products than for the other product groups. Marketing spreads in the fourth quarter averaged 2.3 percent wider than a year earlier.

<u>Farmer's Share</u>: Farmers received an average of 41 cents of each dollar consumers spent for market basket foods in the fourth quarter last year. This was the same as in the third quarter but 3 cents more than in the fourth quarter of 1968.

#### Market Basket Review of 1969

Retail Cost: Rising prices received by farmers and widening marketing spreads boosted retail prices for market basket foods to record levels in 1969. Consumers paid \$1,173 for these foods, up 4.9 percent from 1968 (table 3). Although animal products accounted for about three-fourths of the rise, retail costs increased for all product groups except fresh fruits. On the average, consumers paid 7.7 percent more for animal products in 1969 and 1.6 percent more for crop products.

<sup>1/</sup> The market basket contains the average quantities of domestic, farm-originated food products purchased annually per household in 1960 and 1961 by wage-earners and clerical-worker families and single workers living alone. Its retail cost is calculated from retail prices published by the Bureau of Labor Statistics. The retail cost of the market basket foods is less than the cost of all foods bought per household, since it does not include costs of meals in eating places, imported foods, seafoods or other foods not of farm origin. The farm value is the gross return to farmers for the farm products equivalent to foods in the market basket. The farm-retail spread-difference between the retail cost and farm value--is an estimate of the total gross margin received by marketing firms for assembling, processing, transporting, and distributing the products in the market basket.

Table 1.--The market basket of farm foods by product group: Retail cost, farm value, and farm-retail spread, October-December 1969, July-September 1969, and October-December 1968

	October-	July-	October-	Chang	e: October	December 1969	9 from					
Items :	December 1969	September 1969	December 1968	-	eptember 969		-December 968					
: :	<u>Dollar</u>	<u>Dollar</u>	<u>Dollar</u>	<u>Dollar</u>	Percent	<u>Dollar</u>	Percent					
; :			Re	etail cost	1/							
: arket basket:	1,197.95	1,194.08	1,128.49	3.87	0.3	69.46	6.2					
Meat products:	369.28	،371.80	327.97	<b>-</b> 2.52	7	41.31	12.6					
Dairy products:	211.88	209.03	204.98	2.85	1.4	6.90	3.4					
Poultry:	51.20	53.23	47.50	-2.03	-3.8	3.70	7.8					
Eggs: Bakery and cereal:	50.25	43.11	44.08	7.14	16.6	6.17	14.0					
products:	174.78	172.95	170.76	1.83	1.1	4.02	2.4					
Fresh fruits:	46.08	55.02	51.16	-8.94	-16.2	<b>-</b> 5.08	<b>-</b> 9.9					
Fresh vegetables .: Processed fruits :	78.94	74.61	70.99	4.33	5.8	7.95	11.2					
and vegetables:	125.17	125.29	123.64	12	1	1.53	1.2					
Fats and oils:	38.17	37.78	37.70	.39	1.0	.47	1.2					
Miscellaneous : products:	52.20	51.26	49.71	.94	1.8	2.49	5.0					
			]	Farm value	2/							
arket basket:	487.39	491.87	434.03	-4.48	-0.9	53.36	12.3					
Meat products:	205.20	217.39	168.59	-12.19	-5.6	36.61	21.7					
Dairy products:	103.14	101.02	98.26	2.12	2.1	4.88	5.0					
Poultry:	23.93	27.11	22.28	-3.18	-11.7	1.65	7.4					
Eggs	35.41	28.96	28.22	6.45	22.3	7.19	25.5					
products:	33.85	33.16	32.36	.69	2.1	1.49	4.6					
Fresh fruits:	12.49	15.39	17.58	-2.90	-18.8	<b>-5.09</b>	<del>-</del> 29.0					
Fresh vegetables .:	28.16	22.98	23.22	5.18	22.5	4.94	21.3					
Processed fruits :												
and vegetables:	26.00	26.99	24.95	<b></b> 99	<b>-</b> 3.7	1.05	4.2					
Fats and oils: Miscellaneous :	10.11	9.68	9.40	.43	4.4	.71	7.6					
products:	9.10	9.19	9.17	09	-1.0	07	8					
; :	Farm-retail spread											
arket basket:	710.56	702.21	694.46	8.35	1.2	16.10	2.3					
Meat products:	164.08	154.41	159.38	9.67	6.3	4.70	2.9					
Dairy products:	108.74	108.01	106.72	.73	.7	2.02	1.9					
Poultry:	27.27	26.12	25.22	1.15	4.4	2.05	8.1					
Eggs: Bakery and cereal:	14.84	14.15	15.86	.69	4.9	-1.02	-6.4					
products:	140.93	139.79	138.40	1.14	.8	2.53	1.8					
Fresh fruits:	33.59	39.63	33.58	-6.04	-15.2	.01	1.8 <u>3</u> /					
Fresh vegetables .:	50.78	51.63	47.77	-0.04 85	<b>-13.2</b> <b>-1.6</b>	3.01	6.3					
Processed fruits :	50.70	31.03	71.11	05	1.0	5.01	0.5					
and vegetables:	99.17	98.30	98.69	.87	.9	.48	.5					
Fats and oils:	28.06	28.10	28.30	04	1	24	8					
Miscellaneous :												
products:	43.10	42.07	40.54	1.03	2.4	2.56	6.3					

<sup>1/</sup> Retail cost of average quantities purchased annually per household in 1960-61 by urban wage earner and clerical-worker families and single workers living alone, calculated from retail prices collected by the Bureau of Labor Statistics.

<sup>2/</sup> Payment to farmer for equivalent quantities of farm products minus imputed value of byproducts obtained in processing.

<sup>3/</sup> Less than 0.05 percent.

Table 2.--The market basket of farm foods: Retail cost, farm value, farm-retail spread, and farmer's share of retail cost, averages 1947-49 and 1957-59, annual 1960-69, monthly 1968-69 1/

	:	:	: Farm-retail :	Farmer's
Year and month	: Retail cost	: Farm value	: spread :	share
	:	:	: :	
	:			
	: Dollars	Dollars	Dollars	Percent
Average:	:			
1947-49	: 890	441	449	50
1957-59	_	388	595	39
±991 99 · · · · · · · · · · · · · · · · ·	:		.,,	<b>0</b> ,
1960	: 991	383	608	39
1961	: 997	380	617	38
1962	: 1,006	384	622	38
1963		374	639	37
1964	: 1,014	374	640	37
1965	: 1,038	408	630	39
1966	: 1,095	443	652	40
1967	: 1,080	414	666	<b>3</b> 8
1968	: 1,118	435	683	39
1969 2/		477	696	41
=	•			
<u>1968</u> <u>3</u> /	:	١- ٥	<b>60</b> -	- 0
January		418	680	38
February		426	674	39
March		432	672	39
April		439	671	40
May		435	679	39
June		436	681	39
July		451	673	40
August		439	693 Car	39
September		443	685	39
October		435	696 605	38
November		430	695 600	38
December	: 1,129	437	692	39
1060 0/ 3/	•			
1969 2/ <u>3</u> /	: 1,138	446	692	39
January		452	684	40
February March		461	680	40
April	_ ′	465	685	40
May		471	686	41
June	2 2 55	495	681	42
July		497	693	42
August	2 2 2 2	495	702	41
September	/	483	713	40
October	2 200	476	710	40
November	n nol	489	705	41
December	2 02 1	497	717	41
2003/110-22	:			
7 / 7 1 12 1 0	1 • 1 • -		las more household	. 70(0 (7 1

<sup>1/</sup> Retail cost of average quantities purchased annually per household in 1960-61 by urban wage-earner and clerical-worker families and single workers living alone, calculated from retail prices collected by the Bureau of Labor Statistics. Data for earlier years are published in Farm-Retail Spreads for Food Products 1947-64, ERS-226, April 1965. 2/ Preliminary. 3/ Annual rates.

Table 3.--The market basket of farm foods by product groups: Retail cost, farm value, and farm-retail spread, annual average 1968 and 1969

Th	1060	: 1968	Change:				
Items :	1969	: 1900	1968	to 1969			
:	Dollar	<u>Dollar</u>	<u>Dollar</u>	Percent			
		Retail	cost <u>1</u> /				
ardeat hardeat	1 172 97	1 117 90	55 07	4.9			
arket basket:	1,172.87	1,117.80 324.58	55.07 31.21	9.6			
Meat products:	355.79 208.27	201.96	6.31	3.1			
Dairy products:	50.67	47.83	2.84	5.9			
Poultry:	44.78	38.14	6.64	17.4			
Eggs	44.70	30.14	0.04	17.4			
Bakery and cereal :	172 77	160 61	3.16	1.9			
products	172.77	169.61					
Fresh truits:	50.38	53.00	<del>-</del> 2.62	<b>-4.</b> 9			
Fresh vegetables .:	76.35	72.65	3.70	5.1			
Processed fruits :	124 02	122 06	1 06	1 6			
and vegetables:	124.82	122.96	1.86	1.5			
Fats and oils:	37.89	37.88	.01	<u>2</u> /			
Miscellaneous :	51 15	/·O 10	1 06	/- 0			
products:	51.15	49.19	1.96	4.0			
:		Farm	value <u>3</u> /				
: arket basket:	477.21	435.07	42.14	9.7			
Meat products:	201.60	171.86	29.74	17.3			
Dairy products:	100.78	96.68	4.10	4.2			
Poultry:	25.07	23.56	1.51	6.4			
Eggs	29.79	23.39	6.40	27.4			
Bakery and cereal:	27.77	23.37	0.40	47.64			
products:	33.47	33.06	.41	1.2			
_	15.39	18.72	-3.33	-17.8			
Fresh fruits:	25.22	23.84	1.38	5.8			
Fresh vegetables .:	27.22	23.04	1.30	2.0			
Processed fruits :	26 61	25 0/	1 57	6 2			
and vegetables:	26.61	25.04	1.57	6.3			
Fats and oils:	10.07	9.92	.15	1.5			
Miscellaneous : products:	9.21	9.00	.21	2.3			
_							
		Farm-reta	ail spread				
arket basket	695.66	682.73	12.93	1.9			
Meat products:	154.19	152.72	1.47	1.0			
Dairy products:	107.49	105.28	2.21	2.1			
Poultry:	25.60	24.27	1.33	5.5			
Eggs:	14.99	14.75	.24	1.6			
Bakery and cereal :							
products:	139.30	136.55	2.75	2.0			
Fresh fruits:	34.99	34.28	.71	2.1			
Fresh vegetables .:	51.13	48.81	2.32	4.8			
Processed fruits :							
and vegetables:	98.21	97.92	.29	.3			
Fats and oils:	27.82	27.96	14	5			
Miscellaneous :	47.04	21.90	• T-4	~.,			
	41.94	40.19	1.75	4.4			
products:	41.74	40.17	1.75	4.4			

<sup>1/</sup> Retail cost of average quantities purchased annually per household in 1960-61 by urban wage earner and clerical-worker families and single workers living alone, calculated from retail prices collected by the Bureau of Labor Statistics.

 $<sup>\</sup>frac{2}{}$  Less than 0.05 percent.  $\frac{3}{}$  Payment to farmer for equivalent quantities of farm products minus imputed value of byproducts obtained in processing.

The rise in the retail cost of the market basket foods has accelerated in recent years. Since 1964, the retail cost has risen 16 percent, compared with 3 percent from 1957-59 to 1964 (table 2).

Farm Value: The farm value of foods in the market basket rose 9.7 percent in 1969 from the 1968 level (table 3). Farm values were higher for all product groups except fresh fruit. Increases in prices received by farmers were particularly sharp for meat animals and eggs. These products accounted for most of the increase in the total farm value of the market basket.

The farm value of market basket foods has risen 28 percent since 1964. It rose in both 1965 and 1966, mainly because of reduced supplies of meat animals. After declining in 1967, it increased sharply in 1968 and again in 1969. The increase in farm value last year was caused in part by reduced supplies of meat animals and eggs and by increased demand spurred by rising consumer incomes.

Farm-Retail Spread: The spread between the retail cost and farm value of the market basket averaged 1.9 percent wider in 1969 than in 1968. Most of the increase occurred in the second half. The increase in the marketing spread accounted for about one-fourth of the increase in the retail cost of the market basket.

The increase in the marketing spread in 1969 reflected a general increase in operating costs of food marketing firms. Earnings of employees in food marketing averaged \$2.83 per hour in 1969--6 percent above 1968. Hourly earnings increased by about the same rate in 1968, by 5 percent in 1967, and 4 percent in 1966. Improvements in output per manhour may have cushioned the rise in unit labor cost. Prices of containers, packaging materials, and other goods and services (not including raw materials and labor) also averaged higher in 1969.

After-tax profits of food marketing corporations averaged 2.4 percent of sales in the first 3 quarters of 1969--about the same as in the same period of

1968, according to data compiled by the Federal Trade Commission and Securities Exchange Commission. After-tax profits of 15 leading retail food chains averaged 1 percent of sales in the first 9 months of 1969, unchanged from a year earlier.

Except for 1965, the farm-retail spread increased every year since 1950. Annual increases were smaller for marketing spreads in the 1960's than in the 1950's--1.4 percent compared with 2.7 percent.

Farmer's Share: Increases in farm value accounted for about three-fourths of the rise in the retail cost of market basket foods last year. As a result, the farmer's share of the dollar consumers spent for these foods in retail food stores averaged 41 cents, 2 cents more than in 1968 (table 2). In the 1960's, the annual average farmer's share ranged from 37 to 41 cents.

Outlook for 1970: Marketing costs are expected to increase at a faster rate this year than in 1969 as marketing firms adjust to pressures of rising costs. The anticipated increase in marketing spreads for the year will probably be greater than last year's 1.9 percent increase. As a result, retail costs of market basket foods will increase even if returns to farmers for these foods change little from present levels. The rate of increase for the retail cost of the market basket will probably decline. The annual increase probably will average lower than last year's 4.9 percent.

Operating costs of food marketing firms likely will average higher in 1970 than in 1969. Hourly earnings of food marketing employees will probably continue to rise, and the rise is not likely to be entirely offset by improvements in output per man-hour. Prices of most inputs bought by marketing firms are also expected to rise.

#### Commodity Highlights

Beef: Slightly larger per capita supplies of beef contributed to lower prices at both farm and retail levels in the fourth quarter of 1969. Retail prices for Choice beef averaged 96.3 cents per

pound in the fourth quarter--down 4.7 cents from the record of the previous quarter (table 4). The farm value of Choice beef declined 4.8 cents to 58.0 cents. As a result, the farm-retail spread averaged 0.1 cent wider than the prior record of 38.2 cents in the third quarter. Marketing spreads averaged more than 8 cents per pound wider in the second half of 1969 than in the first half or in the 4 quarters of 1968. Practically all of the increase in the spread occurred in the carcass-retail margin.

#### Change in Terminology

"Carcass value" shown in table: 4 was formerly called "wholesale: value." The change in terminology: was made to more accurately describe: the beef value used to compute beef: price spreads. Thus, wholesale-retail: spread becomes carcass-retail spread: and farm-wholesale spread changes to: farm-carcass spread.

: The term wholesale still ac-: curately describes the value used to : compute price spreads for pork and : lamb.

Continued strong consumer demand and wider marketing margins continued to keep retail beef prices higher than a year ago. Retail prices for Choice beef averaged 8.2 cents per pound higher in the fourth quarter of 1969 than a year earlier. The farm value of beef was up only 0.2 cent. Thus, the farm-retail spread averaged 8.0 cents wider than a year earlier. All of the increase was in the carcass-retail margin.

Eggs: Production of eggs in the fourth quarter of 1969 averaged slightly higher than in either the previous quarter or a year earlier. Despite increased supply, strong demand for eggs boosted prices sharply at both farm and retail

levels. Retail prices for Grade A large eggs rose about 10 cents per dozen in the fourth quarter, reflecting an increase of around 9 cents per dozen in farm value (table 11, p. 24). Both retail prices and farm value were 9 to 10 cents per dozen higher in the fourth quarter of 1969 than a year earlier.

The farm-retail spread averaged 20.6 cents in the fourth quarter-1.0 cent more than in the third quarter but 1.4 cents less than a year earlier (table 12, p. 25).

In December 1969 egg prices at both farm and retail levels reached highs for the decade. The marketing spread, however, remained relatively stable.

Fresh Vegetables: Short supplies of several fresh market vegetables caused upward pressure on both farm and retail prices in the fourth quarter last year, but changes in farm-retail spreads were minor. The retail cost of fresh vegetables in the market basket was up 5.8 percent from the third quarter compared with a 22.5 percent increase in farm value. In contrast, marketing spreads decreased 1.6 percent. Lettuce, tomatoes, cabbage, cucumbers, and green peppers showed the largest increase in farm and retail prices.

Compared with a year ago, the retail cost of the fresh vegetable groups averaged 11.2 percent higher, farm value 21.3 percent higher, and farm-retail spreads 6.3 percent wider.

Fresh Fruit: In contrast to generally higher food prices, the retail cost of the fresh fruit group in the market basket averaged 16 percent lower in the fourth quarter of 1969 than in the previous quarter. Farm value was down 19 percent and the marketing spread decreased 15 percent. Responding to a 24 percent increase in production, prices and marketing spreads for apples showed the sharpest decrease and accounted for much of the decline for the group. Decreases for grapefruit were next in importance.

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Table 4.--Beef, pork, and lamb: Retail price, carcass value, farm value, farm-retail spread, and farmer's share of retail price, annual 1967-69, quarterly 1968-69  $\underline{1}/$ 

	: :Retail price	: Carcass	Gross	Byproduct	Net	Fa	rm-retail	spread	
Date	per pound <u>2</u> /	: value : <u>3</u> /	farm value <u>4</u> /	allowance <u>5</u> /	value	Total	Carcass- retail	Farm- Carcass	Farmer's share
	<u>Cents</u>	Cents	Cent s	Cents	Cents	Cents	Cents	Cents	Percent
	:			Beef,	Choice gr	ade			
1967	: : 82.6	59.4	57.0	4.0	53.0	29.6	23.2	6.4	64
1968	86.6	63.1	60.5	3.8	56.7	29.9	23.5	6.4	65
1969	: 96.3	68.7	66.9	4.7	62.2	34.1	27.6	6.5	65
<u>1968</u>	:								
JanMar	: 85.0	62.0	59.2	3.6	55.6	29.4	23.0	6.4	65
AprJune	: 85.7	62.3	59.6	3.7	55.9	29.8	23.4	6.4	65
July-Sept	: 87.5	64.1	61.5	3.8	57.7	29.8	23.4	6.4	66
OctDec	88.1	64.1	61.8	4.0	57.8	30.3	24.0	6.3	66
1969	•								
JanMar	: 90.1	66.1	63.7	4.0	59.7	30.4	24.0	6.4	66
AprJune	: 97.9	74.6	73.3	4.8	68.5	29.4	23.3	6.1	70
July-Sept	: 101.0	69.7	67.9	5.1	62.8	38.2	31.3	6.9	62
OctDec	96.3	64.3	62.8	4.8	58.0	38.3	32.0	6.3	60
	:				Pork				
1967	67.2	51.5	37.3	2.5	34.8	32.4	15.7	16.7	52
1968		51.7	36.7	2.2	34.5	32.9	15.7	17.2	51
1969		58.5	45.5	3.2	42.3	32.0	15.8	16.2	57
1968	•								
JanMar		50.4	35.9	2.2	33.7	32.7	16.0	16.7	51
AprJune	: 66.9	51.8	36.9	2.1	34.8	32.1	15.1	17.0	52
July-Sept		53.5	39.0	2.2	36.8	32.3	15.6	16.7	53
OctDec	67.3	50.9	34.7	2.1	32.6	34.7	16.4	18.3	48
1969	•								
JanMar		52.8	38.4	2.6	35.8	32.7	15.7	17.0	52
AprJune		56.5	43.5	2.9	40.6	31.3	15.4	15.9	56
July-Sept		62.1	50.3	3.5	46.8	30.8	15.5	15.3	60
OctDec	: 78.9 :	62.7	49.8	3.8	46.0	32.9	16.2	16.7	58
				Lamb,	Choice gr	ade			
1967	87.4	62.8	54.4	5.8	48.6	38.8	24.6	14.2	56
1968	93.6	68.2	60.0	6.4	53.6	40.0	25.4	14.6	57
1969		74.8	66.9	7.6	59.3	42.5	27.0	15.5	58
1968									
JanMar		64.6	57.3	6.6	50.7	40.5	26.6	13.9	56
AprJune	93.8	71.5	62.2	6.5	55.7	38.1	22.3	15.8	59
July-Sept		67.7	60.1	6.2	53.9	40.7	26.9	13.8	57
OctDec		69.0	60.3	6.3	54.0	41.0	26.0	15.0	57
1969	:								
JanMar		71.6	64.4	8.2	56.2	40.5	25.1	15.4	58
AprJune		77.2	68.0	8.0	60.0	40.8	23.6	17.2	60
July-Sept		76.3	67.6	6.9	60.7	44.0	28.4	15.6	58
	: 105.2	74.2	67.6	7.3	60.3	44.9	31.0	13.9	57

<sup>1/2</sup> Data for beef and pork have been extensively revised. For discussion of the revision see article in the November 1969 issue of Marketing and Transportation Situation. 2/2 Estimated weighted average price of retail cuts. 3/2 For quantity equivalent to 1 lb. of retail cuts: Beef: 1.41 lb. or carcass beef; pork, 1.07 lb. of wholesale cuts; lamb, 1.18 lb. of carcass lamb. 4/2 Payment to farmer for quantity of live animal equivalent to 1 lb. of retail cuts: Beef, 2.28 lb.; pork, 1.97 lb.; lamb, quantity varies by months from 2.42 lb. in May to 2.48 lb. in October. 5/2 Portion of gross farm value attributed to edible and inedible byproduct. 6/2 Gross farm value minus byproduct allownace.

## LABOR PRODUCTIVITY IN FOOD MANUFACTURING

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Civilian consumers in the United States spent about 15 percent of their disposable personal income for domestic farm food products in 1969 (for all foods, expenditures were 16.5 percent). Domestic farm food expenditures (\$96 billion) can be divided into two parts: (1) the marketing bill (\$64 billion) which is the cost of assembling, transporting, processing and distributing the products to consumers and (2) the farm value (\$32 billion) which is the payment to farmers for their products. Labor costs are the largest single item in the total domestic farm food marketing bill.

Labor costs and hourly earnings have parallelled a continued upward trend in the marketing bill. The importance of labor costs in the marketing bill has focused attention on labor productivity in farm food marketing.

Labor productivity--output per manhour--in factories processing farmoriginated foods increased 59 percent from 1954 to 1968, according to recent estimates (table 5). Output of factories-value added in constant dollars--processing farm foods increased 50 percent from 1954 to 1968. Factory output and output per man-hour have increased each year.

The larger increase in output per man-hour than in total output reflected a 6 percent decline in total man-hours

worked in food manufacturing during 1954-68. However, the poultry and egg, processed fruits and vegetables, and sugar industries increased the number of man-hours.

During 1954-68, output per man-hour in food manufacturing increased at an average annual rate of 3.6 percent with gains in all food manufacturing industries (table 6). The grain mill industry had the largest average annual increase, 4.5 percent. Other industries having above-average increases were sugar, meat products, and dairy products. Bakery products had the smallest increase, 2.9 percent.

Output for all food processing industries increased at an annual rate of 2.8 percent for 1954-68. The poultry and egg industry had the largest increase (6.7 percent). Other industries having above-average increases in output were processed fruits and vegetables, grainmill products, sugar, and confectionery products. The bakery industry had the smallest annual increase.

The average annual rate of growth of output per man-hour in 1954-68 was higher for food manufacturing industries (3.6 percent) than for all manufacturing industries (3.1 percent) and for the entire nonfarm sector of the economy (2.8 percent).  $\underline{1}/$ 

<sup>1/</sup> Average annual rates of growth in output per man-hour worked in the private non-farm sector were computed from annual estimates reported in Indexes of Output Per Manhour for the Private Economy, 1947-68, BLS, U.S. Dept. Labor, March 1968.

Table 5.--Output per man-hour in establishments manufacturing farm-originated foods, by industry,  $1954-68 \frac{1}{2}$ 

				(1957.	-59=100)	)			
Year	Output			•	: :	Output per man-	Output		Output per man- hour
		ll Foods	s <u>2</u> /	Meat	product	s <u>3</u> /	: Poul	try and	eggs <u>4</u> /
1954 1955 1956 1957 1959 1960 1961 1963 1964 1965 1966 1967	91 97 97 99 104 107 110 114 116 122 122 125	99 100 103 101 99 100 98 97 94 96 94 93 93	89 91 94 96 100 104 108 112 118 124 127 130 134 137	89 97 103 101 97 102 107 108 110 116 124 121 126 132 135	105 107 111 105 98 98 97 93 92 91 97 90 88 89	85 91 93 96 99 105 111 116 120 128 129 134 143 148 152	68 69 84 89 101 110 109 129 128 134 141 150 163 176	86 88 96 97 100 104 105 114 107 113 116 120 126 132 131	79 78 87 92 101 106 104 114 120 119 122 125 129 134 130
	Dair	y produc	ets <u>5</u> /		sed fru etables	its and <u>6</u> /	Grain-	mill pr	oducts 7/
1954 1955 1956 1957 1958 1960 1961 1963 1964 1965 1966 1966	88 94 97 100 103 104 106 1108 1113 1114 113 112	98 101 102 101 100 99 96 94 91 86 86 83 81 80 78	84 87 92 97 100 104 108 112 119 127 131 137 141 141	85 90 102 97 98 105 112 121 130 126 134 137 145 151	94 95 99 100 99 101 103 104 104 102 104 108 111 111	90 95 103 97 98 104 109 116 125 123 129 128 131 135 142	87 88 92 95 100 105 109 114 119 125 129 129 131 131	102 106 104 101 99 101 100 99 93 94 93 92 91	85 83 88 95 101 104 108 114 120 135 137 139 143 145 144

<sup>1/</sup> Output per man-hour indexes were computed from unrounded indexes of man-hours worked by all employees and factory output. Man-hour estimates for 1954-67 are based on data published by the Bureau of Census. Estimates for 1968 were interpolated from employment statistics published by BLS. Output estimates are based on value added indexes published by the Bureau of Census projected for non-census years by physical output data published by the USDA. Data for 1964-68 are preliminary. 2/ Establishments primarily engaged in manufacturing shortening and cooking oils, margarine, macaroni, and spaghetti, as well as industry groups shown on this table. 3/ Meat-packing plants and establishments specializing in prepared meat products. 4/ Poultry-dressing plants and establishments specializing in processed egg products. 5/ Plants engaged in processing fluid milk and cream, butter, natural cheese, concentrated milk, ice cream and ices, and special dairy products. (cont.)

Table 5.--(cont.) Output per man-hour in establishments manufacturing farmoriginated foods, by industry, 1954-68

					(195	7 <del>-</del> 59=100	)				
Year :	Output		Output per man- hour	:	Output		Output per man- hour	:	Output		Output per man- hour
:	Baker	ry produ	cts <u>8</u> /	:		Sugar 9	/	:	Cont	fectione	ry <u>10</u> /
1954 1955 1956 1958 1959 1960 1961 1962 1963 1964 1965 1966 1966 1967 1968	91 92 95 96 101 103 104 105 108 110 113 115 115	97 98 100 100 100 101 101 99 98 92 92 91 90 88 89	94 94 95 96 101 102 103 106 110 120 122 126 127 131		89 80 87 94 98 108 110 118 123 145 151 140 143 140 165	104 97 95 98 101 101 99 102 98 107 116 108 105	86 82 92 96 97 107 111 115 126 135 131 130 136 139 158		86 85 90 96 100 104 107 110 111 116 121 124 131 134 135	101 103 105 101 100 99 100 101 96 98 98 99 100 98	85 83 85 95 100 105 108 110 110 122 123 126 132 134 137

6/ Establishments primarily engaged in canning and freezing fruits and vegetables and manufacturing pickles and sauces. 7/ Establishments primarily engaged in manufacturing flour and meal, cereal products, rice milling, blended and prepared flour, and corn wet milling products. 8/ Establishments primarily engaged in manufacturing biscuits and crackers, wholesale bakeries, grocery chain bakeries, home service bakeries, and retail multi-outlet bakeries (excluding nonbaking outlets except those retail units at the same location as the bakery). 9/ Establishments primarily engaged in manufacturing raw cane sugar from domestically grown cane and plants mainly engaged in the production of beet sugar. 10/ Establishments primarily engaged in manufacturing candy and other confections.

Table 6.--Average annual change in output per man-hour, output, and total man-hours in manufacturing farm-originated foods, by industry, 1954-68

Industry :	Output	Man-hours	Output per man-hour
:		Percent -	
All farm foods	2.8	-0.7	3.6
Meat products	2.7	-1.5	4.3
Poultry and eggs	6.7	3.0	3.7
Dairy products	2.0	-2.0	4.2
Processed fruits and vegetables:	4.3	1.1	3.2
rain-mill products:	3.4	-1.0	4.5
akery products	1.9	-0.9	2.9
ugar products	5.0	0.6	4.4
onfectionery products	3.4	-0.1	3.6

## THE EGG INDUSTRY IN THE 1970'S

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More extensive changes appear imminent for the egg industry than were apparent at the beginning of the past few decades. There is fairly general agreement on the direction of change in the egg industry during the 1970's, but opinion differs on the rate at which changes will occur. Several recent papers were helpful in preparing this article. 1/

#### Egg Production and Use

While broiler and turkey production, both in total and per capita, is expected to rise significantly, few economists make similar predictions for eggs. Egg production in the 1970's and beyond is likely to increase a bit less than the percentage increase in population. Thus, per capita consumption in the 1970's may be slightly less than the levels of recent years, tending to level off toward 300 eggs per person. But even this level of consumption cannot be held without positive efforts.

The main shifts in the 1970's will be in the form in which consumers use eggs. The proportion of eggs used in shell form will gradually decline from the present level of nearly 90 percent toward 67 percent by the end of the 1970's. The use of eggs in manufactured products will rise gradually from the present 10 percent to about 15 percent. But there will be a substantial growth in the use of eggs in prepared and convenience forms, such as egg mixes, both for household and institutional use. At present, such forms are not common, but by the end of the 1970's they may account for well over 15 percent. Industrial uses are likely to. absorb most of the eggs with damaged shells and below Grade A. These changes are likely to continue and intensify in the 1980's.

There also may be some change in where eggs are produced. Regionally, a slowing is expected for some of the trends underway since the 1950's. The South will show further gains, but elsewhere the relative declines will slow down and stabilize. Thus, there will still be some interregional movements of eggs from the South and Midwest to the Northeast and from the West Coast to the Mountain region for years to come. But even the areas which remain deficit will produce a major share of their requirements.

Interregional shifts in egg production are not likely to be spectacular, but those within regions may be more striking. To a considerable extent the forces for changes within regions will originate outside the egg industry. Zoning regulations, tax problems, and more attention to systematic ranking of the use of land for residential, industrial, public, agricultural and recreational purposes will force the egg industry to migrate. Problems from noise, waste disposal, and possible pollution can be handled more readily. Land requirements are less critical for egg production now. Moreover, preservation of quality can be easily accomplished from a technical standpoint and this at least dilutes the advantages of nearness to markets. Final choices on relocation will be somewhat influenced by entrepreneurial considerations, but there will be areas of geographic concentration. This will be related in part to the needs for private and public services for owners, employees, and their families of a quality fully equal to those available in metropolitan and suburban areas. It will also be influenced by the requirements for enhanced efficiency of operations in the egg industry.

<sup>1/</sup> Haffert, W. A., Jr., A Dazzling Decade of Change, paper, 1969 Agri-Business Conference, St. Louis, Mo., Nov. 6-7, 1969. Reese, T. M., Changing Market Needs in the Poultry Industry, paper, 1969 Agri-Business Conference, St. Louis, Mo., Nov. 6-7, 1969. Jones, H. B., Processed Egg Products: A Marketing Opportunity, USDA, Econ. Res. Ser., ERS-405, Feb. 1969. Rogers, G. B., W. W. Gallimore, and F. L. Faber, Shifts in the Location of Egg, Broiler, and Turkey Production, USDA, Econ. Res. Ser., PES-254, Nov. 1968. Rogers, G. B. and F. M. Conley, Marketing Poultry and Eggs, USDA, Econ. Res. Ser., ERS-324, Oct. 1966.

Within regions, the egg industry must increasingly relocate in areas of open farmland and other undeveloped areas somewhat removed from population centers, but this does not imply individual and small units widely scattered.

#### Industry Structure and Practices

There will be larger units, greater concentration of ownership, and almost universally prevalent coordination of producing, input-supplying, processing, and marketing activities. Some skillful independent producers can survive if they are large enough to perform several of these functions, or if they can retain a piece of shrinking local preference markets -- even with smaller price premiums. But for most, the advantages of scale and joint efforts will prevail and the flock manager generally will be only one spoke in the wheel. Increasingly, he will be on contract, a corporation employee, or a partner in a coordinated group.

Specialization, too, will be the rule rather than the exception. But it will be specialization within coordinated complexes and thus distinct from the independent specialization characteristic of earlier decades. Nevertheless, a relatively small number of private firms or cooperatives will effectively control most of the commercial egg output by the late 1970's. This development is already in evidence and will proceed rapidly in the next few years. With this development, the industry can expect closer scrutiny from antitrust enforcement and regulatory agencies. Hopefully, a rule of reason will prevail which will both preserve high efficiency and protect the public interest.

The egg industry must both compete for the consumer's dollar by not overpricing its products and by finding better ways to assure a more equitable distribution of returns to participants. It cannot afford an image of monopoly or oligopoly, or inequities in the distribution of returns.

Cage production has already displaced much floor production and this will proceed even more rapidly. The definition of small flocks has changed drastically during the 1960's. In the 1970's, many flocks that are presently considered medium-sized to large will appear relatively small. This is because the number of birds handled per man will continue to rise very substantially. Small flocks will disappear insofar as commercial egg markets are concerned, even in the Midwest where flocks under 10,000 birds still account for a larger share of production than elsewhere.

The increasing concentration of production, large units, and the greater attention required by waste disposal operations will have yet another effect. Secondary products will be handled mechanically, making more feasible and economical their recovery for existing and new uses. These may include feathers and offal as feed ingredients, and chicken manure as a source of commercial nitrogen.

The egg industry must be prepared to live in the age of consumerism. means more attention to quality and health problems and, preferably, acting before such matters are raised by those outside the industry. Nationwide Federal-State standards for egg sizes, grades, and quality should come early in the 1970's. Mandatory Federal-State inspection of at least commercial processed and shell eggs is another likely and early development. Under adverse circumstances, eggs are one of the potential carriers of salmonella. The egg industry itself has no control over recontamination by food handlers. but it can take steps to minimize original contamination. The egg industry was hurt by the cholesterol scare in the 1960's. Now iron deficiency in diets is a problem. Thus, it may be necessary to reduce cholesterol and add even more iron. nology may become available to solve these kinds of problems. The current reevaluations of pesticides, insecticides, and antibiotics will also cause some short-run problems and require adjustments in practices.

#### Egg Pricing

Egg pricing, a persistent problem, reached a crisis stage in the 1960's. Early in the 1970's improvements in egg pricing will be gradual and modest. By the late 1970's, the pricing system will

be considerably modified. The growing use of eggs for manufacturing and in further-processed products will serve to remove much of the need for short-run price fluctuations. With developing concentration in the industry, there may be more branded products and a move toward administered prices. Firms will be able to announce prices in advance and hold to them with general success over longer time periods.

Returns to egg production and other related activities will become more stable in the 1970's. In part, this will reflect more stable egg prices, but also will be due to more equal bargaining power and to investment and output decisions more nearly geared to a rate of return comparable to that from other agricultural and nonagricultural alternatives.

Eggs could be priced by the pound in the 1970's if some technical problems can be solved. Eggs, even at current high prices, are a good buy by the pound. Even if the industry does not price and sell eggs that way in the near future, it could

do more to get the message across that eggs are a good value.

The industry has a backlog of unapplied technology to aid in achieving even greater efficiencies and this will preserve favorable price relationships in comparison to other food items throughout the 1970's.

#### Changes are Inevitable

Changes likely to get underway in the 1970's will not have run their course before the decade ends. Changes will bring problems, but awareness of impending changes and early accommodation to them will help considerably to minimize the impacts from such problems. The egg industry is already on the road to agribusiness or even big business. It will become difficult to think about the egg industry alone for the interrelationships between the egg industry and other parts of the economy will be impossible to escape.

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#### MERGERS AND ACQUISITIONS IN THREE FOOD INDUSTRIES

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Considerable attention has focused upon merger and acquisition activities of corporate business firms, including food industries, in recent years. An extensive search of trade magazines and financial publications was made to identify and present the trends in such activity. These data update a series presented earlier for the dairy and retail grocery industries. 1/ For this article, we included the meat processing and packing industry for the period 1959-67.

A merger joins 2 or more companies. Such a "business marriage" frequently results in significant changes which affect both stockholders and management. The market context will influence the impact a particular merger eventually will have upon the public.

Profit is considered to be an important merger motive, but so is company growth, management prestige, tax shelter, personal power, and increased efficiency. The need to join technological "know how," develop new products, and to minimize the cost of entering into new markets often combine with other motives to encourage firms to merge.

Mergers were extensive in the 1947-67 period. The meatpacking industry averaged 10 acquisitions per year, 2/1947-58, and 28 per year, 1959-67. For the same periods, the dairy processing industry averaged 54 per year for the earlier period, and 56 for the latter.

In contrast, the retail grocery industry averaged 82 annually in 1952-58, but 47 in 1959-67.

Mergers and acquisitions may be hortizontal, vertical, or conglomerate in character. A combination of all 3 forms in a single merger is possible. A horizontal merger joins 2 firms with operations in the same industry and at the same level of operation. Horizontal mergers always eliminate at least one company from a market. Between 1959 and 1967, horizontal mergers were by far the most prevalent type in the 3 industries studied (table 7).

Vertical mergers and acquisitions combine 2 firms within the same industry, but at different levels in the production-marketing chain. For instance, a manufacturer may acquire a retail store specializing in the sale of his type of products. Conglomerate mergers and acquisitions are combinations of different industries with distinctly different economic (production) functions, and sometimes different levels of marketing, all operating under the same corporate roof.

Data for this article were obtained from several financial journals and industry trade publications. 3/ Some mergers and acquisitions (particularly small ones) are missed by each of these media. However, Nelson and Mueller have shown that the same types of media yield sufficiently similar results to enable cross-industry comparisons. 4/

<sup>1/</sup> Nelson, P. E. and Paul, A. B.; Ownership Changes by Purchase and Merger in Selected Food Industries, Market Research Report No. 369, U.S. Dept. of Agriculture, 1959, p. 15.

<sup>2/</sup> National Commission on Food Marketing, <u>Organization and Competition in the Livestock and Meat Industry</u>. Technical Study No. 1, June 1966, p. 27.

<sup>3/</sup> For instance: The Conference Board Business Management Record, Chain Store Age, Directory of Supermarket and Grocery Chain Stores, Dunn and Bradstreet Reference Book, Food Topics, Mergers and Acquisitions, Moody's Industrial Manual, Poor's Register of Corporations, Supermarket Merchandising, and Twelve Thousand Leading U.S. Corporations.

<sup>4/</sup> Paul E. Nelson, Jr. and W. E. Mueller, "A Note on the Sources of Acquisitions Data," The Review of Economics and Statistics, XLIII (3) 300, Aug., 1961. "... when trade sources, as well as industrial manuals are used, secondary sources provide reliable data on purchase or merger in specific industries".

Table 7.--Mergers and acquisitions in the meat, dairy, and retail grocery industries, 1959-67

:		:			Ty	pe .			
Industry :	Total	:		: Vert		:	Cong	lomerate	2
and year :	TOLAT	: Horia	· HOLLBOHLUL		ical	F	bod	Non	food
•	No.	No.	Pct.	No.	Pct.	No.	Pct.	No.	Pct.
Meat processors :									
1959:	38	25	65	5	13	4	11	4	11
1960:	33	22	67	11	33				
1961:	49	36	74	12	24			1	2
1962:	34	25	74	6	18			3	8
1963:	34	16	47	11	33			7	20
1964	13	7	54	1	8	4	30	1	8
1965:	22	8	36	1	5			13	59
1966:	17	9	54	4	23			4	23
1967	9	5	56	3	33			i	11
Total:	249	153	61	54	22	8	3	34	14
iotai	249	133	OI	J <del>-</del>	22	· ·	,	54	7-7
Deirer processors :									
Dairy processors:	55	43	78	6	11	6	11		
1959		36	76 75	3	6	5	10	4	9
1960	48			_	_	_		•	4
1961:	56	38	68	6	11	10	17	2	
1962	48	31	65	6	12	11	23		
1963:	32	19	60	3	9	7	22	3	9
1964:	59	36	60	7	12	8	14	8	14
1965:	68	28	41	23	34	2	3	15	22
1966:	74	39	53	15	20	9	12	11	15
1967:	67	36	54	10	15	5	7	16	24
Total:	507	306	60	79	16	63	12	59	12
Retail grocery :									
stores :									
1959:	44	37	84	4	9			3	7
1960:	41	31	76	4	10			6	14
1961:	31	17	55	4	13			10	32
1962:	43	24	56	10	23			9	21
1963:	41	25	61	8	20	2	5	6	14
1964:	53	40	76	5	9	2	4	6	11
1965	71	57	81	1	1	1	1	12	17
1966	36	21	58	5	14	. 6	17	4	11
1967:	63	49	78	4	6	4	6	6	10
Total	423	301	71	45	11	15	3	62	15
TOTAL	725	301	7.2	.,		-5			
Grand total:	1,179	760	65	178	15	86	7	155	13

#### Meat Industry

Most mergers and acquisitions in the meat processing and packing industry have been within the industry (except for 1965) at the same level of operation. Vertical mergers have been limited by the "Consent Decree," 5/ and the Packers and Stockyard Act, as amended by the Federal Trade Commission Act. Today's "big 4" meatpackers, under administrative agreements falling within the context of this legislation, have not been allowed to integrate vertically. Consequently, horizontal acquisitions have been greater than vertical. Only about onethird of all acquisitions by meat processing and packing firms other than the "big 4" have been vertical. These include feedlots, hatcheries, feed mills, canned meat processing firms, and wholesale distributors. The administrative agreements with the "big 4" also may have influenced the industry's consideration of conglomerate integration. More than 70 percent of the conglomerate acquisitions were made after 1961.

Between 1959 and 1967, there were 249 mergers and acquisitions made by companies in the meat industry. Combined horizontal and vertical mergers were 83 percent of the total, with 61 percent at the same level of operations and 22 percent within the same industry at a different level of operation. Thus, 17 percent of the mergers and acquisitions were of the conglomerate nature.

The meatpacking and processing industry acquired an average of 28 firms per year. Forty-nine percent were made by firms with over \$10 million and under \$50 million in assets. Those firms having \$50 million and over in assets acquired 44 percent. Firms with assets under \$10 million or not reporting accounted for the remaining 7 percent. Thus, in meatpacking and processing, the large firms particularly appear to be

getting larger by mergers and acquisitions; 93 percent of all mergers of this industry were made by large firms and only 7 percent by small ones.

To gauge the impact of mergers and acquisitions on the total number of firms operating in the industry, a review of the Source Book (Internal Revenue Service) was made (1967 data not yet available) to ascertain the total number of companies reporting each year which were classified according to the categories of industries in this study (table 8).

There was no definite trend in number of firms operating in the meat processing industry. Annual changes in the number of firms in the industry far exceeded the number of mergers and acquisitions.

The 3 largest corporations in the meat industry (assets over \$100 million) had 34 percent of total sales reported in the IRS Source Book, 39 percent of total assets, and 21 percent of total profit for the period 1959-66 (table 9). These 3 corporations were responsible for 17 percent of the total number of mergers and acquisitions during this period. 6/

#### Dairy Industry

The dairy industry made 507 mergers and acquisitions between 1959 and 1967. This number was more than double that of the meat industry and also exceeded the retail grocery industry. Sixty percent of the mergers and acquisitions made by the dairy industry were horizontal—within the same industry. Conglomerate mergers and acquisitions accounted for 24 percent of the total.

Dairy companies made more conglomerate acquisitions than did the other 2 industries. Antitrust policy against horizontal mergers has prevented much of the growth by merger or concentration in

<sup>5/</sup> The Palmer-Packer Agreement of 1920 ("Consent Decree") forbade the then "big 5" from entering retailing, and placed them under the perpetual jurisdiction of the U.S. District Court with respect to business practices, combinations or conspiracies which could lead to monopoly control of food products, etc.

 $<sup>\</sup>underline{6}/$  In 1966 there were 4 corporations with assets over \$100 million. However, the data were prorated and 3 corporations were used.

Table 8.--Corporation income tax returns in three industries, 1959-66

Industry	1959	1960	1961	1962	1963	1964	1965	1966
				- Number	of return	<u>ıs</u>		
Meat	2,389	2,007	2,849	2,703	2,285	2,377	2,678	2,222
Dairy	4,308	4,248	4,028	4,259	3,614	3,776	3,186	3,545
Retail : grocery:	8,943	15,328	18,246	20,809	18,211	19,002	21,167	22,154

Source: Source Book, Internal Revenue Service

Table 9.--Concentration of sales, profit, and assets by companies with assets over \$100 million, 1959-1966

Industry	1959	1960	1961	1962	1963	1964	1965	1966
:				Percent	of total			
•				Tercent	OI COLAI			
Retail grocery :								
(3 firms) :								
Sales	19	30	26	NA	25	24	23	22
Profit:	30	40	40	NA	31	29	29	28
Assets:	27	25	25	NA	2.3	23	23	21
•								
Meat (3 firms) :								
Sales:	34	36	33	NA	35	35	32	34
Profit:	18	21	27	NA	20	23	18	23
Assets:	39	40	38	NA	39	<b>3</b> 9	<b>3</b> 9	41
:								
Dairy 1/ :								
Sales:	35	35	37	NA	42	43	49	43
Profit:	54	57	59	NA	62	62	71	71
Assets:	40	41	44	NA	50	53	57	54
	-+0	71	-7-7	747.7	30	33	3,	J-1

 $<sup>\</sup>underline{1}/$  Five firms 1st 3 years; 6 firms 4th year; 7 firms 5th and 6th years; 6 firms 7th year.

Compiled from: Source Book, Internal Revenue Service.

the marketing of products. Even so, the largest part of mergers and acquisitions remained horizontal in character.

The dairy industry averaged 56 mergers and acquisitions per year, with nearly half (47 percent) accounted for by the small (under \$10 million or not reported) asset size group. Less than half (42 percent) were made by the over \$50 million group. The medium sized group was the least active of the three groups within the dairy industry.

The dairy industry had a larger number of firms with over \$100 million of assets than did the retail grocery or meat processing and packing industries. However, because the number of firms of this size varied from one year to another, a comparison of mergers and acquisitions by the largest firms could not be made between the dairy industry and the other 2 industries.

Based on IRS data, the number of dairy processors dropped about 20 percent between 1959 and 1966. The numbers of mergers and acquisitions equaled about two-thirds of this change.

#### Retail Grocery Industry

The retail grocery industry had 423 mergers and acquisitions in 1959-67, second in number to the dairy industry. Eighty-two percent of their mergers were within the same industry, primarily horizontal. Conglomerate mergers accounted for 18 percent.

Retail grocery mergers and acquisitions were more evenly divided than the other 2 industries. The \$10 million and under \$50 million group accounted for 31 percent, and the group over \$50 million asset size, 30 percent. The smaller asset size (under \$10 million or not reported) accounted for the remainder, 39 percent.

Based on the IRS data, the retail grocery industry had 3 firms with assets over \$100 million. Contrary to the

popular idea that the giants of the industry are taking over the small firms, only 3 percent of the total mergers and acquisitions were made by the 3 largest firms. About one-fourth of the sales and assets were held by these 3 firms. They earned 32 percent of the profits in 1959.

With the exception of 1963, the total number of retail grocery firms increased each year. Obviously new firm formation was substantially greater than the number of acquisitions and mergers.

#### Industry Comparisons

Mergers and acquisitions in these 3 industries combined averaged 131 per year between 1959 and 1967. This included 84 horizontal, 20 vertical, 10 conglomerate food, and 17 conglomerate nonfood mergers and acquisitions. The dairy industry was responsible for 43 percent, the meat processing and packing industry for 21 percent, and the retail grocery industry for 36 percent of total mergers and acquisitions.

Because the rates of acquisition were different, a chi-square test was made to determine if observed differences among the numbers of vertical, horizontal, and conglomerate acquisitions by each industry were random (chance) in character. The chi-square was significant at the .001 percent level, with 4 degrees of freedom. The contingency coefficient was 0.14 out of a possible 0.82. This means that while the differences in type of merger are not attributable to chance, neither can they be explained primarily by industry category.

From all indications, the use of mergers and acquisitions as a method of growth will continue. If horizontal mergers continue to dominate, there will be a gradual increase in market concentration nationally, particularly in specified markets. However, lower stock prices, higher interest rates, and the possibility of changes in tax regulations could slow merger activity substantially for the immediate future.

#### Selected New Publications

- 1. "A Location Logistics System for Feed Firm Management," by Robert E. Lee and James C. Snyder, U.S. Dept. of Agr. Econ. Res. Ser., MRR-867, Jan. 1970.
- 2. "Regional and Sectoral Analysis of the Wheat-Flour Economy: A Transportation Study," by Bruce H. Wright, U.S. Dept. of Agr., Econ. Res. Ser., MRR-858, Oct. 1969.
- 3. "Flaxseed Production and Use: Past Trends and Future Prospects," by Clarence A. Moore, University of Peoria, Peoria, Ill., U.S. Dept. of Agr., Econ. Res. Ser., ERS-425, Sept. 1969.
- 4. "Food Service in the Nation's Schools: A Preliminary Report," by William H. Fruend, U.S. Dept. of Agr., Econ. Res. Ser., ERS-434, Dec. 1969.
- 5. "Egg Price Relationships, 1962-68--Selected Markets, Trading Levels, Grade, Sizes," by George B. Rogers and Fred L. Faber, U.S. Dept. of Agr., Econ. Res. Ser., Stat. Bul. 445, Jan. 1970.
- 6. "Diversification and Profitability Among Large Food Processing Firms," by Richard J. Arnould, U.S. Dept. Agr., Econ. Res. Ser., Agr. Econ. Report No. 171, Jan. 1970.

Unless otherwise indicated, items listed are Economic: Research Service publications and single copies may be obtained free from the Division of Information, Office of: Management Services, U.S. Department of Agriculture,: Washington, D.C. 20250.

#### LIST OF SPECIAL ARTICLES, 1969 in The Marketing and Transportation Situation

Processed Egg Products: A Marketing OpportunityFe	b.
Commercial Floriculture: A Changing AgribusinessFe	b.
Improvements in Grades of Hogs MarketedMa	У
Truck Rates for Shipping Cotton in Southeastern United States,	
Arizona, and CaliforniaMa	У
Prices and Price Spreads for Fresh FruitsMa	У
The Bill for Marketing Farm-Food ProductsAu	g.
Implications of Change in the Tobacco EconomyAu	g.
Dehydrated FoodsA Market PrespectiveAu	g.
Demmurage and the Freight Car SituationAu	g.
Costs and Profits in Marketing Farm Foods	v.
Advertising Expenditures by Corporations Marketing FoodNo	٧.
Revised Price Spreads for Beef and PorkNo	٧.
	Commercial Floriculture: A Changing Agribusiness Fe Improvements in Grades of Hogs Marketed May Truck Rates for Shipping Cotton in Southeastern United States, Arizona, and California May Prices and Price Spreads for Fresh Fruits May The Bill for Marketing Farm-Food Products Au Implications of Change in the Tobacco Economy Au Dehydrated Foods A Market Prespective Au Demmurage and the Freight Car Situation Au Costs and Profits in Marketing Farm Foods No Advertising Expenditures by Corporations Marketing Food No

Product 1/	Farm equivalent	: : Retail unit :	Retail cost	: Gross : farm : value	Byproduct allowance	: Net : farm : value : <u>2</u> /	retail	Farmer's share
		:	Dollars	Dollars	Dollars	Dollars	Dollars	Percent
			1,197.95			487.39	710.56	41
Market basket	]	:	369.28			205.20	164.08	56
Dairy products		:	: 211.88			103.14	104.08	49
Poultry and eggs		: Average	101.45			59.34	42.11	58
Bakery and cereal products 3/	Farm produce equivalent	: quantities : purchased						
All ingredients Grain	to products bought per urban wage-	: per urban : wage-earner	: 174.78 :	30.38	5.45	33.85 24.93	140.93	19 14
All fruits and vegetables	earner and clerical- worker bousehold in	: and : clerical-	250.19 125.02			66.65 40.65	183.54 84.37	27 33
Fresh fruits and vegetables Fresh fruits	1960-61	: worker : household	46.08			12.49	33.59	27
Fresh vegetables Processed fruits and		: in : 1960-61	78.94			28.16	50.78	36
vegetables		: 1900-01	125.17			26,00	99.17	21
Fats and oils		:	38.17	25.38	15.27	10.11	28.06	26
Miscellaneous products		:	52.20			9.10	43.10	17
		:	Cents	Cents	Cents	Cents	Cents	Percent
Beef, Choice grade $\frac{4}{5}$ /	2.28 lb. Choice grade cattle 2.47 lb. lamb	Pound Pound	96.3 105.2	62.8 67.6	4.8 7.3	58.0 60.3	38.3 44.9	6 <b>0</b> 57
Pork <u>4</u> /	1.97 lb. hogs	Pound	78.9	49.8	3.8	46.0	32.9	58
Butter	Cream and whole milk	Pound	85.6	102.2	39.3	62.9	22.7	73
Cheese, American process	Milk for American cheese Cream, milk, and sugar	½ pound ½ gallon	48.4 82.3	22.7	.8	21.9 28.0	26.4 54.3	45 34
Milk, evaporated		142-ounce can	17.8	8.8	2	8.6	9.2	48
Milk, fresh Home delivered Sold in stores		$\frac{1}{2}$ gallon $\frac{1}{2}$ gallon	63.5 55.9			28.3 28.3	35.2 27.6	45 51
Chickens, frying, ready-to-cook Eggs, Grade A large		Pound Dozen	42.5 69.7			19.4 49.1	23.1 20.6	46 70
Bread, white All ingredients Wheat Bread, whole or cracked wheat Cookies, cream filled Corn flakes Flour, white	.877 lb. wheat .708 lb. wheat .528 lb. wheat 2.87 lb. yellow corn	Pound Pound Pound Pound Pound 12 ounces 5 pounds	23.3 23.1 32.1 49.7 31.5 57.9	2.9  6/5.8 23.3	.4  6/3.4 3.1	3.3 2.5 3.2 4.5 <u>6</u> /2.4 20.2	20.0  28.9 45.2 29.1 37.7	14 11 10 9 8 35
Apples	1.04 lb. apples	Pound	: 19.0			5.6	13.4	29
Grapefruit Lemons Oranges	1.03 grapefruit 1.04 lb. lemons	Each Pound Dozen	15.3 32.2 84.7			3.2 10.9 17.2	12.1 21.3 67.5	21 34 20
Cabbage	1.08 lb. cabbage	Pound	12.8			4.6	8.2	36
Carrots	1.03 lb. carrots	Pound	19.5			8.0 6.2	11.5 12.6	41 33
Cucumbers	1.09 lb. cucumbers	Pound Pound	18.8 26.0			9.1	16.9	35
Iettuce		Head Pound	35.9 13.7			15.4 4.6	20.5 9.1	43 34
Peppers, green	1.09 lb. peppers	Pound	42.2			19.0	23.2	45 26
Potatoes Tomatoes		10 pounds Pound	78.8 45.1			20.3 19.3	58.5 25.8	43
Peaches, canned	1.60 lb. Calif. cling peaches	No. 2½ can	33.9			6.0	27.9	18
Pears, canned	1.85 lb. pears for canning	No. $2\frac{1}{2}$ can	49.5			8.8	40.7	18
Beets, canned	1.24 lb. beets for canning 2.495 lb. sweet corn	No. 303 can No. 303 can	18.2 24.0			1.2 3.0	17.0 21.0	7 12
Peas, canned	.69 lb. peas for canning	No. 303 can No. 303 can	25.1 19.9			3.7 3.3	21.4 16.6	15 17
		:	23.8			11.3	12.5	47
Orange juice, concentrate, frozen French fried potatoes, frozen	1.38 lb. potatoes	6-ounce can 9 ounces	16.4			2.9	13.5	18
Peas, frozen	.70 lb. peas for freezing 1.00 lb. Mich. dry beans	10 ounces Pound	21.0 19.4			3.5 6.1	17.5 13.3	17 31
Margarine		Pound	28.0	18.0	11.0	7.0	21.0	25
Peanut butter	1.33 lb. peanuts	. 12-ounce jar	46.8		29.9	16.5 11.4	30.3 41.0	35 22
Salad and cooking oil Vegetable shortening		24-ounce bottle 3 pounds	52.4 82.8	41.3 63.7	39.4	24.3	58.5	29
Sugar		5 pounds	62.4	26,5	1.6	7/24.9	<u>7</u> /37.5	40
Spaghetti with sauce, canned	Wheat, tomatoes, cheese, sugar	15t-ounce can	17.9			2.0	15.9	11

<sup>1/</sup> Product groups include more items than those listed in this table. For example, in addition to the products listed—Choice beef, lamb, and pork (major products except lard)—the meat products group includes lower grades of beef, the minor edible pork products, and veal.

<sup>2/</sup> Gross farm value adjusted to exclude imputed values of byproducts obtained in processing.
3/ For the bakery products group and the individual wheat products, gross farm value, byproduct allowance, net farm value, and farmer's share are based on the market price of wheat received by farmers plus the cost of the marketing certificate to millers. This cost is returned to farmers complying with the Wheat Program.

<sup>4/</sup> Data for beef and pork have been extensively revised, for discussion of the revision see article in November 1969 issue of "Marketing and Transportation Situation."

<sup>5/</sup> Farm product equivalents for lamb have been revised to allow for loss through pilferage, spoilage, dehydration and refacing and economic losses incurred through selling cuts in a lower-priced form or at special low prices because of quality deterioration.
6/ Based on market price of corn received by farmers; no allowance made for price support payment received by farmers who comply with the Federal Feed Grain

Program.

7/ Net farm value adjusted for Government payments to producers was 28.7 cents, farm-retail spread adjusted for Government processor tax was 34.8 cents, farmer's share of retail cost based on adjusted farm value was 46 percent.

	:	:	r-December	Retail						Net farm v	alue 2/		
		October-	July-	Octobor	: :		ge change:		: 77	: 0-1-	: :		ge change
Product 1/	Retail unit	December	September	December	1957-59	OctDe	ec. 1969 : m-	December	September	Docombox	1957-59	OctDe	ec. 1969 m-
-		1969	1969	1968	average	July-	:October-:	1909		1968 <u>3</u> /	: "":	July-	October-
	:	:	:	:			December: : 1968 :		:	: ≟′ :			:December : 1968
		: Dollars	Dollars	Dollars	Dollars	Percent		Dollars	Dollars	Dollars	Dollars	Percent	
Market basket	: 7	: :1,197.95	1,194.08	1,128.49	982.65	0.3	6.2	487.39	<u>3</u> /491.87	434.03	387.87	-0.9	12.3
Meat products		369.28	3/371.80	327.97	285.05	7	12.6					-5.6	21.7
Dairy products	Average	: 211.88	209.03	204.98	173.33	1.4	3.4		3/217.39 3/101.02	168.59 98.26	154.47 77.85	2.1	5.0
Poultry and eggs	quantities	101.45	96.34	91.58	93.02	5.3	10.8	59.34	56.07	50.50	56.28	5.8	17.5
Bakery and cereal products 4/	purchased per urban	:											
All ingredients	wage-earner and	: 174.78 :	172.95	170.76	148.40	1:1	2.4	33.85 24.93	<u>3</u> /33.16 24.39	32.36 24.66	30.25 23.40	2.1	4.6 1.1
All fruits and vegetables	>clerical-	250.19	254.92	245.79	202.96	-1.9	1.8	66.65	<u>3</u> /65.36	65.75	50.05	2.0	1.4
Fresh fruits and vegetables Ffesh fruits	household	125.02	129.63 55.02	122.15 51.16	91.15 36.26	-3.6 -16.2	2.3 -9.9	40.65 12.49	38.37 15.39	40.80 17.58	28.70 12.26	5.9 -18.8	4 -29.0
Fresh vegetables	in	78.94	74.61	70.99	54.89	5.8	11.2	28.16	22.98	23.22	16.44	22.5	21.3
Processed fruits and vegetables	1960-61	125.17	125.29	123.64	111.81	1	1.2	26.00	<u>3</u> /26.99	24.95	21.35	-3.7	4.2
Fats and oils		38.17	37.78	37.70	37.56	1.0	1.2	10.11	9.68	9.40	11.19	4.4	7.6
Miscellaneous products		52,20	<u>3</u> /51.26	49.71	42.33	1.8	5.0	9.10	<u>3</u> /9.19	9.17	7.48	-1.0	8
		Cents	Cents	Cents	Cents	Percent	Percent	Cents	Cents	Cents	Cents	Percent	Percent
Beef, Choice grade 5/	Pound	96.3	101.0	3/88.1	74.4	-4.7	9.3	58.0	62.8	57.8	51.3	-7.6	0.3
Lamb, Choice grade	Pound Pound	105.2 78.9	104.7 77.6	95.0 <u>3</u> /67.3	73.8 59.8	.5 1.7	10.7 17.2	60.3 46.0	60.7 46.8	54.0 32.6	41.9 31.9	7 -1.7	11.7 41.1
Butter	Pound	85.6	84.5	83.8	73.2	1.3	2.1	62.9	62.6	60.3	52.6	.5	4.3
Cheese, American process Ice cream	pound gallon	48.4 82.3	47.5 81.2	45.1 81.1	32.3 84.2	1.9	7.3 1.5	21.9 28.0	21.1 27.6	19.9 26.4	14.2 21.0	3.8 1.4	10.1 6.1
Milk, evaporated	141-ounce can	17.8	17.7	17.4	14.5	.6	2.3	8.6	8.6	8.1	6.2	0	6.2
Milk, fresh	1/2 gallon	63.5	62.5	61.3	50.8	1.6	3.6	28.3	27.6	27.3	21.9	2.5	3.7
Home delivered Sold in stores	½ gallon ½ gallon	55.9	55.3	54.6	46.6	1.1	2.4	28.3	27.6	27.3	21.9	2.5	3.7
Chickens, frying, ready-to-cook Eggs, Crade A large	Pound- Dozen	42.5 69.7	44.5 59.8	39.4 61.1	43.5 56.2	-4.5 16.6	7.9 14.1	19.4 49.1	22.6 40.2	18.1 39.1	24.4 36.1	-14.2 22.1	7.2 25.6
	: DOZEN	: 09.7	39.0	01.1	30.2	10.0	14.1	47.1	40.2	37.1	30.1	22.1	25.0
Bread, white All ingredients	Pound	23.3	23.0	22.7	18.9	1.3	2.6	3.3	3.3	3.2	3.0	0	3.1
Wheat	Pound Pound	32.1	31.5	30.6		1.9	4.9	2.5 3.2	2.5 <u>3</u> /3.1	2.5 3.1	2.4	0 3,2	0 3.2
Cookies, cream filled	Pound	49.7	50.1	50.0		8	6	4.5	4.4	4.4		2.3	2.3
Corn flakes	12 ounces	31.5	31.4	31.3	24.5	.3	.6	2.4	2.7	2.3	2.4	-11.1	4.3
Flour, white		57.9	58.0	58.0	53.3	2	2	20.2	19.7		18.8	2.5	1.0
Apples	Pound Each	19.0 15.3	27.4 18.2	21.4 17.6	16.1 10.7	-30.7 -15.9	-11.2 -13.1	5.6 3.2	7.4 5.6	8.4 4.2	5.0 2.7	-24.3 -42.9	-33.3 -23.8
Lemons	Pound	32.2	30.1	25.4	18.4	7.0	26.8	10.9	11.1	6.0	4.2	-1.8	81.7
Oranges	Dozen	84.7	85.4	101.4	66.0	8	-16.5	17.2	17.9	31.3	23.2	-3.9	-45.0
Cabbage	Pound Pound	12.8	11.4 19.2	12.0 15.8	8.7 14.5	12.3 1.6	6.7 23.4	4.6 8.0	3.5 7.8	3.8 5.2	2.4 3.7	31.4 2.6	21.1 53.8
Celery	Pound	18.8	19.9	15.7	15.3	-5.5	19.7	6.2	6.7	4.2	4.4	7.5	47.6
Cucumbers	Pound Head	26.0 35.9	22.2 27.4	28.5 29.8	22.6	17.1 31.0	-8.8 20.5	9.1 15.4	7.6 8.3	15.7 10.8	6.0	19.7 85.5	-42.0 42.6
Onions	Pound	13.7	14.7	13.5	10.1	-6.8	1.5	4.6	4.7	3.7	3.4	-2.1	24.3
Peppera, green	Pound 10 pounds	42.2 78.8	37.1 88.0	35.2 73.8	58.3	13.7 -10.5	19.9 6.8	19.0 20.3	11.9 24.2	12.7 20.1	17.8	59.7 -16.1	49.6 1.0
Potatoes Tomatoes	Pound	45.1	35.7	41.2	30.1	26.3	9.5	19.3	11.1	15.8	10.6	73.9	22.2
Peachea, canned	No. 2½ can	: : 33.9	34.6	34.9	34.3	-2.0	-2.9	6.0	6.1	6.1	6.1	-1.6	-1.6
Pears, canned	No. 25 can	49.5	50.2	52.1		-1.4	-5.0	8.8	9.5	10.3		-7.4	-14.6
Beets, canned	No. 303 can	18.2 24.0	18.2 23.8	18.2 24.3	17.8	.8	0 -1.2	1.2 3.0	1.3 3.0	1.4 3.0	2.4	-7.7 0	-14.3 0
Peas, canned	No. 303 can	25.1	25.0	24.8	21.0	.4	1.2	3.7	3.7	3.8	3.1	0	-2.6
Tomatoes, canned	: NO. 303 Can	19.9	19.7	20.0	15.6	1.0	5	3.3	3.6	3.7	2.3	-8.3	-10.8
Orange juice, concentrate, frozen	6-ounce can	23.8	24.4	22.4	23.4	-2.5	6.2	11.3	11.3	9.6 2.4	8.2	0 -12.1	17.7 20.8
French fried potatoes, frozen	10 ounces	16.4 21.0	16.3 21.0	15.7 20.6	19.9	.6 0	4.5 1.9	3.5	3.3	3.6	3.2	-12.1	-2.8
Beans, dried	Pound	19.4	19.6	19.9	16.3	-1.0	-2.5	6.1	7.1	7.9	6.9	-14.1	-22.8
Margarine Peanut butter	Pound	28.0	27.7	27.7	27.4	1.1	1.1	7.0	6.7	6.3	7.8	4.5	11.1
Peanut butter	12-ounce jar	46.8 52.4	45.9 52.2	44.7 51.9	41.4	2.0	4.7 1.0	16.5 11.4	15.9 10.9	16.0 10.8	14.1	3.8 4.6	3.1 5.6
Vegetable shortening		82.8	82.0	83.0	90.4	1.0	2	24.3	23.3	22.4	28.2	4.3	8.5
		62.4	62.6	61.1	54.5	3	2.1	24.9	<u>3</u> /25.2	25.1	20.2	-1.2	8
Sugar Spaghetti with sauce, canned	15%-ounce can	17.9	17.5	17.0		2.3	5.3	2.0	2.1	2.1		-4.8	-4.8
	:												

Wheat Program.

5/ Data for beef and pork have been extensively revised. For discussion of the revision see article in November 1969 issue of "Marketing and Transportation Situation."

Product groups include more items than those listed in this table. For example, in addition to the products listed--Choice beef, lamb, and pork (major products except lard)--the meat products group includes lower grades of beef, the minor edible pork products, and veal.

2/ Cross farm value adjusted to exclude imputed value of byproducts obtained in processing.

3/ Many net farm value figures for October-December 1968 have been revised; figures in other columns revised as indicated.

4/ For the bakery products group and the individual wheat products, the net farm value is based on the market price of wheat received by farmers plus the cost of the marketing certificate to millers. This cost equals the value of the domestic marketing certificate received by farmers complying fully with the

			:	Farm-retail	spread 2/	: Percentag	e change	:	Farmer's	share	:
Product <u>l</u> /	Retail unit	October- December	July- September	October- December	1957-59 average	: OctDec	. 1969	October- December	July- September	October- December	1957-59 average
		1969	1969	1968 <u>3</u> /		: September :		1969	1969	1968	
		Dollars	Dollars	Dollars	Dollars	Percent	Percent	Percent	Percent	Percent	Percent
Market basket	<u>ו</u>	710.56	<u>3</u> /702.21	694.46	594.78	1.2	2.3	41	41	38	39
Meat products	Average	164.08	<u>3</u> /154.41	159.38	130.58	6.3	2.9	56	58	51	54
Dairy products	quantities	108.74	<u>3</u> /108.01	106.72	95.48	.7	1.9	49	48	48	45
Poultry and eggs	purchased per urban	42.11	40.27	41.08	36.74	4.6	2.5	58	58	55	61
Bakery and cereal products 4/ All ingredients	wage-earner and	140.93	<u>3</u> /139.79	138.40	117.85	.8	1.8	19 14	19 14	19 14	21 16
All fruits and vegetables	> clerical- worker	183.54	<u>3</u> /189.56	180.04	152.91	-3.2	1.9	27	26	<u>3</u> /27 <u>3</u> /33	25
Fresh fruits and vegetables	household	84.37	91.26	81.35	62.45		3.7	32 27	30 28	<u>3</u> /33 <u>3</u> /34	31 34
Fresh fruits	in 1960-61	33.59 50.78	39.63 51.63	33.58 47.77	24.00 38.45		<u>5</u> / 6.3	36	31	33	30
Processed fruits and		: 00.17	2/09 20	98.69	90.46	.9	.5	21	22	20	19
vegetables		99.17	<u>3</u> /98.30 28.10	28.30	26.37		8	26	26	25	30
Fats and oils		: 28.06 : 43.10	<u>3</u> /42.07	40.54	38.45		6.3	17	18	<u>3</u> /18	18
Miscellaneous products		Cents	Cents	Cents	Cents	Percent	Percent	Percent	Percent	Percent	Percent
		38.3	38.2	30.3	26.1	.3	26.4	60	62	3/66	66
Beef, Choice grade <u>6</u> / Lamb, Choice grade Pork <u>6</u> /	Pound Pound Pound	44.9 32.9	44.0 30.8	41.0 34.7	31.9 28.0	2.0	9.5 -5.2	57 58	58 60	<u>3</u> /57 48	57 5 <b>3</b>
Butter	Pound	: : 22.7	21.9	23.5	20.6	3.7	-3.4	73	74	72	72
Cheese, American process	½ pound	26.4	26.4	25.2	18.1	0	4.8	45	44	44 33	44 25
Ice cream	gallon	54.3 9.2	53.6 9.1	54.7 9.3	63.2 8.3	1.3	7 -1.1	34 48	34 49	47	43
Milk, fresh		:							,,		43
Home delivered	dellon dellon dellon dellon dellon	35.2 27.6	34.9 27.7	34.0 27.3	28.9 24.7	.9 4	3.5 1.1	45 51	44 50	45 50	47
		: : 23.1	21.9	21.3	19.1	5.5	8.5	46	51	46	56
Chickens, frying, ready-to-cook Eggs, Grade A large	Pound Dozen	20.6	19.6	22.0	20.1	5.1	-6.4	70	67	64	64
Bread, white All ingredients	Pound	: : 20.0	19.7	19.5	15.9	1.5	2.6	14	14	14	16
Wheat	Pound	:				1.0	5.1	11 10	11 10	11 10	13
Bread, whole or cracked wheat Cookies, cream filled	Pound Pound	28.9 45.2	<u>3</u> /28.4 45.7	27.5 45.6		1.8 -1.1	9	9	9	3	
Corn flakes	12 ounces	29.1	28.7	29.0	22.1	1.4	.3	8	9	7 34	10 35
Flour, white	5 pounds	37.7	38.3	38.0	34.5	-1.6	8	35	34		
Apples	Pound	13.4	20.0 12.6	13.0 13.4	11.1 8.0	-33.0 -4.0	3.1 -9.7	29 21	27 <b>31</b>	39 <u>3</u> /24	31 25
GrapefruitLemons	Each Pound	12.1 21.3	19.0	19.4	14.2	12.1	9.8	34	37	24	23
Oranges	Dozen	67.5	67.5	70.1	42.8	0	-3.7	20	21	<u>3</u> /31	35
Cabbage	round	8.2	7.9	8.2	6.3	3.8	0	36	31 41	32 33	28 26
Carrots	round	: 11.5 : 12.6	11.4 13.2	10.6 11.5	10.8 10.9	.9 -4.5	8.5 9.6	41 33	34	27	29
Cucumbers	Pound	: 16.9	14.6	12.8	16.6	15.8	32.0	35 43	34 30	55 <b>3</b> 6	27
LettuceOnions	nead	20.5 9.1	19.1 10.0	19.0 9.8	16.6 6.7	7.3 -9.0	7.9 -7.1	34	32	27	34
Peppers, green	Pound	: 23.2	25.2	22.5		-7.9	3.1	45	32	36	31
Potatoes		58.5 25.8	63.8 24.6	53.7 25.4	40.5 19.5	-8.3 4.9	8.9 1.6	26 43	28 31	27 38	35
Tomatoes	Pound	:	-4.0	-511							
Peaches, canned	No. 2½ can	: : 27.9	28.5	28.8	28.2	-2.1	3.1	18	18	17	18
Pears, canned	No. 2½ can	: 40.7	40.7	41.8		0	-2.6	18 7	19 7	20 8	
Beets, canned	No. 303 can	17.0 24.0	16.9 20.8	16.8 21.3	15.4	.6 15.4	1.2 12.7	12	13	12	13
Corn, canned	No. 303 can No. 303 can	21.4	21.3	21.0	17.9	.5	1.9	15	15	15	15
Tomatoes, canned	No. 303 can	16.6	16.1	16.3	13.3	3.1	1.8	17	18	18	15
Orange juice, concentrate, frozen	6-ounce can	12.5	13.1	12.8	15.2	-4.6	-2.3	47	46	43	35
French fried potatoes, frozen	9 ounces	13.5	13.0 17.4	13.3 17.0	16.7	3.8 .6	1.5 2.9	18 17	20 17	15 17	16
Peas, frozen Beans, dried	10 ounces Pound	17.5 13.3	12.5	12.0	9.4	6.4	10.8	31	36	40	42
		:			19.6	0	-1.9	25	24	23	28
Margarine	Pound 12-ounce jar	21.0 30.3	21.0 30.0	21.4 28.7	27.3	1.0	5.6	35	35	36	34
Salad and cooking oil	24-oz. bottle	41.0	41.3	41.1		7	4	22	21 28	21 27	31
Vegetable shortening	3 pounds	58.5	58.7	60.6	62.2	4	-3.5	29	28		
Sugar	5 pounds	37.5	<u>3</u> /37.4	36.0	34.3	.3	4.2	40 11	<u>3</u> /40 12	41 12	37
Spaghetti with sauce, canned	15%-ounce can	: 15.9 :	15.4	14.9		3.2	6.7	11	12	12	

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1/ Product groups include more items than those listed in this table. For example, in addition to the products listed--Choice beef, lamb, and pork (major products except lard)--the meat products group includes lower grades of beef, the minor edible pork products, and veal.

2/ The farm-retail spread is the difference between the retail cost and the net farm value shown in table on opposite page.

3/ Many farm-retail spread figures for October-December 1968 have been the retail spread in other columns revised as indicated.

4/ For the bakery products group and the individual wheat products, the farmer's share is based on the market price of wheat received by farmers plus the cost of the marketing certificate to millers. This cost is returned to farmers complying with the Wheat Program.

5/ Less than 0.05 percent.

6/ Data for beef and pork have been extensively revised. For discussion of the revision see article in November issue of "Marketing and Transportation Situation."

	Tarm-retail spread, and far	mer b strate or r		1900				
Product 1/	: : Farm equivalent :	: : Retail unit :	Retail cost	: Gross : farm : value	Byproduct allowance	Net farm value 2/	retail	Farmer's share
		:	: Dollars	Dollars	Dollars	Dollars	Dollars	Percent
Market basket	: 7	:	: 1,117.80			- 435.07	682.73	39
Meat products		:	324.58			171.86	152.72	53
Dairy products		:	201.96			96.68	105.28	48
Poultry and eggs		: Average	: 85 97			46.95	39.02	55
Bakery and cereal products 3/	Farm produce equivalent	: quantities : purchased	: 0).51			, ,	3,,,,	,,
All ingredients Grain	to products bought per urban wage-		: 169.61 :	30.47	5.09	33.06 25.38	136.55	19 15
All fruits and vegetables	earner and clerical- worker household in	: and : clerical-	248.61			67.60	181.01	27
Fresh fruits and vegetables Fresh fruits	1960-61	: worker : household	125.65			42.56 18.72	83.09 34.28	34 35
Fresh vegetables Processed fruits and		: in	72.65			23.84	48.81	33
vegetables		: 1960-61	: 122.96			25.04	97.92	20
Fats and oils		:	: 37.88	27.44	17.52	9.92	27.96	26
Miscellaneous products		:	49.19			9.00	40.19	18
	•	:	Cents	Cents	Cents	Cents	Cents	Percent
2.1/		:	86.6					
Beef, Choice grade 4/	. 2.45 ID. Tamp	Pound Pound	93.6	60.5	3.8 6.4	56.7 53.6	40.0	65 57
Pork <u>4</u> /	: 1.97 lb. nogs	Pound	67.4	36.7	2.2	34.5	32.9	51
Butter		Pound	83.6	96.7	36.2	60.5	23.1	72 144
tce cream	cream, milk, and sugar	pound gallon	80.7	20.3	.8	19.5 26.3	24.9 54.4	33
Milk, evaporated	Milk for evaporating	$14\frac{1}{2}$ -ounce can	17.1	8.4	.2	8.2	8.9	48
Home delivered	4.39 lb. Class I milk 4.39 lb. Class I milk	$\begin{array}{c} \vdots & \frac{1}{2} \text{ gallon} \\ \vdots & \frac{1}{2} \text{ gallon} \end{array}$	60.0			26.6 26.6	33.4 27.1	44 50
Chickens, frying, ready-to-cook		Pound	39.8			19.5	20.3	49
Eggs, Grade A large	1.03 dozen	Dozen	52.9			32.4	20.5	61
Bread, white All ingredients	Wheat and other ingredients	Pound	22.4			3.3	19.1	15
wneat	O() ID. Wheat	Pound		2.9	-3	2.6		12
Bread, whole or cracked wheat Cookies, cream filled		Pound Pound	30.0 50.3			3.2 4.4	26.8 45.9	11 9
Corn flakes	2.87 lb. yellow corn	12 ounces 5 pounds	31.2 58.4	6/5.5 23.4	<u>6</u> /3.1 2.8	6/2.4 20.6	28.8 37.8	8 <b>3</b> 5
Apples	1.04 lb. apples	Pound	24.0			8.9	15.1	37
Graperruit	1.03 granefruit	Each	16.4			4.4	12.0	27
Lemons	1.04 lb. lemons 1.03 doz. oranges	Pound Dozen	26.0 96.6			7.1 31.0	18.9 65.6	27 32
		Pound	12.0				8.3	
Carrots	1.03 lb. carrots	Pound	18.7			3.7 6.5	12.2	31 35
Chelmbers	1.00 lb. delery	Pound Pound	16.8			5.1 11.8	11.7 16.4	30 42
		Head	27.5			9.3	18.2	34
Onions		Pound Pound	15.0			5.3 14.5	9.7 25.1	35 37
rotatoes	. 10.42 ID. potatoes	10 pounds	76.2			21.2	55.0	28
Tomatoes	1.18 lb. tomatoes	Pound	40.5			15.6	24.9	39
Penahas annual	1 60 lb Colife -14	. No 21	. 25.0			6.4	20 0	18
Peaches, canned	1.05 In. bears for causing	No. 2½ can No. 2½ can	35.2 53.6			13.8	28.8 39.8	26
beets, canned	. 1.24 Ib. beets for canning	No. 303 can No. 303 can	18.1			1.3 3.0	16.8 21.3	7 12
Corn, canned	09 lb. peas for canning	No. 303 can	24.9			3.8	21.1	15
Tomatoes, canned	1.84 lb. tomatoes for canning	No. 303 can	20.4			3.8	16.6	19
Orange juice, concentrate, frozen	3.15 lb. oranges	6-ounce can	21.2			9.0	12.2	42
French fried potatoes, frozen	1.30 lb. potatoes	9 ounces 10 ounces	15.4			2.1 3.7	13.3 17.0	14 18
Peas, frozen Beans, dried	1.00 lb. Mich. dry beans	Pound	19.6			8.4	11.2	43
Margarine	Soybeans, cottonseed, and milk	Pound	27.9	19.8	13.0	6.8	21.1	24
Peanut butter	1.33 lb. peanuts	12-ounce jar 24-ounce bottle	44.0 52.2	44.0	32.4	15.4 11.6	28.6 40.6	35 22
Vegetable shortening	Soybeans and cottonseed	3 pounds	83.9	70.9	46.7	24.2	59.7	29
Sugar	Sugar beets and cane	5 pounds	60.9	26.2	1.5	7/24.7	<u>7</u> /36.2	7/41
Spaghetti with sauce, canned	Wheat, tomatoes, cheese, sugar	$15\frac{1}{4}$ -ounce can	16.8			2.1	14.7	12

<sup>2/</sup> Product groups include more items than those listed in this table. For example, in addition to the products listed-Choice beef, lamb, and pork (major products except lard)—the meat products group includes lower grades of beef, the minor edible pork products, and veal. 2/ Gross farm value adjusted to exclude imputed values of byproducts obtained in processing. 3/ For the bakery products group and the individual wheat products, gross farm value and farmer's share are based on the market products group and the individual wheat products, gross farm value, byproducts allowance, not farm value and farmer's share are based on the market profes of wheat received by farmers plus the cost of the marketing certificate to millers. This cost is returned to farmers complying with the Wheat Program. 4/ Data for beef and pork have been extensively revised. For discussion of the revision see article in November 1969 issue of "Marketing and Transportation Studenton." 5/ Farm product equivalents for lamb have been revised to allow for loss through pilferage, spoilage, dehydration and refacing and economic losses incurred through selling cuts in a lower-priced form or special low prices because of quality deterioration. 6/ Based on the market price of corn received by farmers; no allowance made for price support payment received by farmers who comply with the Federal Feed Grain Program. 7/ Net farm value adjusted for Government payments to producers was 28.4 cents, farm-retail spread adjusted for Government processors tax was 33.5 cents, farm-retail spread adjusted for Government payments to producers was 28.4 cents, farm-retail spread adjusted for Government payments to producers was 28.4 cents, farm-retail spread adjusted for Government payments to producers was 28.4 cents, farm-retail spread adjusted for Government payments to producers was 28.4 cents, farm-retail spread adjusted for Government payments and the products of the pro

Product 1/		Retail unit	Retail cost	: Gross : farm : value	Byproduct allowance	Net farm value 2/		Farmer's share
			Dollars	Dollars	Dollars	Dollars	Dollars	Percent
			1,172.87			477.21	695.66	41
Market basket  Meat products			355 • 79			201.60	154.19	57
Dairy products			208.27			100.78	107.49	48
Poultry and eggs		Average quantities	95.45			54.86	40.59	57
Bakery and cereal products 3/	Farm produce equivalent	purchased				22 1.7	120.20	19
All ingredients Grain	to products bought per urban wage-	per urban wage-earner	172.77	29.98	5.22	33.47 24.76	139.30 	14
All fruits and vegetables	earner and clerical-	and	251.55			67.22	184.33	27
Fresh fruits and vegetables	worker household in 1960-61	clerical- worker	126.73 50. <b>3</b> 8			40.61 15.39	86.12 34.99	33 31
Fresh fruits Fresh vegetables		household in	76.35			25.22	51.13	33
Processed fruits and vegetables		1960-61	124.82			26.61	98.21	21
Fats and oils			37.89	26.83	16.76	10.07	27.82	27
Miscellaneous products			51.15			9.21	41.94	18
			Cents	Cents	Cents	Cents	Cents	Percent
Beef, Choice grade 4/	2.28 lb. Choice grade cattle	Pound	96.3	66.9	4.7	62.2	34.1	65 58
Lamb, Choice grade 2/	2.43 ID. TAMB	Pound	: 161.8 : 74.3	66.9 45.5	7.6 3.2	59·3 42·3	42.5 32.0	58 57
Fork 4/	1.91 ID. HORE	Pound	•					
Butter	Cream and whole milk	Pound ½ pound	84.6 47.0	100.7 21.8	<b>3</b> 8.8 .8	61.9 21.0	22.7 26.0	73 45
Cheese, American process	Cream, milk, and sugar	½ gallon	81.3	8.8	.2	27.4 8.6	53·9 9.0	34 49
Milk fresh	Milk for evaporating	142-ounce can	17.6	0.0	• ~	0.0	9.0	_
Home delivered	4.39 lb. Class I milk 4.39 lb. Class I milk	½ gallon ½ gallon	62.3 55.1			27.6 27.6	34·7 27·5	44 50
Chickens, frying, ready-to-cook Eggs, Grade A large	1.37 lb. broiler	Pound Dozen	42.2 62.1			20.7 41.3	21.5 20.8	49 67
Bread, white All ingredients Wheat Bread, whole or cracked wheat Cookies, cream filled Corn flakes Flour, white	.708 lb. wheat .528 lb. wheat 2.87 lb. yellow corn	Pound Pound Pound Pound 12 ounces 5 pounds	23.0  31.4 49.9 31.3 58.0	2.9  6/5.9 22.8	.4  6/3.3 2.7	3.3 2.5 3.2 4.5 <u>6/2.6</u> 20.1	19.7  28.2 45.4 28.7 37.9	14 11 10 9 8 35
Apples	1.04 lb. apples	Pound	23.9			8.2	15.7	34
Apples Grapefruit Lemons		Each	15.2 29.5			3.4 10.0	11.8 19.5	22 34
Oranges	1.04 lb. lemons 1.03 doz. oranges	Pound Dozen	83.8			18.7	65.1	22
Cabbage	1.08 lb. cabbage	Pound	12.4			3.7	8.7	30
Carrots	1.03 ID. Carrots	Pound Pound	17.9 18.6			6.5 6.3	11.4	3h
Carrots	1.09 lb. cucumbers	Pound	27.6			9.3	18.3	34 34
Ondana	1.00 1b. 1eccade	Head Pound	31.1			11.5 3.9	19.6 9.8	<b>37</b> 28
Onlons Peppers, green Potatoes Tomatoes	1.09 lb. peppers	Pound	41.8			15.9 24.0	25.9	38 29
Tomatoes	10.42 lb. potatoes 1.181b. tomatoes	10 pounds Pound	81.6			15.6	57.6 26.5	37
		:	:			2).0	20.7	21
Peaches, canned Pears, canned Beets, canned Corn, canned Peas, canned Tomatoes, canned	1.60 lb. Calif. cling peaches	No. 2½ can	34.4			6.1	28.3	18
Pears, canned	1.85 lb. pears for canning 1.24 lb. beets for canning	No. 2½ can No. 303 can	: 50.3			9.7 1.3	40.6 16.9	19
Corn, canned	2.495 lb. sweet corn	. No. 303 can	23.8			3.0	20.8	7 13
Tomatoes, canned	1.84 lb. tomatoes for canning	No. 303 can No. 303 can	24.9 19.7			3.8 3.6	21.1 16.1	15 18
	•	6-ounce can	24.1					
Orange juice, concentrate, frozen French fried potatoes, frozen	1.38 lb. potatoes	9 ounces	16.2	==		10.9	13.2 13.1	45 19
Peas, frozen	1.00 lb. Mich. dry beans	10 ounces Pound	19.6			3.6 7.6	17.4 12.0	17 39
	:	Pound	27.8	19.2	12.2	7.0	20.8	25
Margarine		12-ounce jar	45.9			16.0	29.9	35
Salad and cooking oil	Soybeans, cottonseed, and corn Soybeans and cottonseed	24-ounce bottle 3 pounds	52.2 82.6	43.6 68.1	32.1 43.7	11.5 24.4	40.7 58.2	22
		:	:					30 <u>7</u> /40
Sugar	Sugar beets and cane	5 pounds	. 62.0	26.7	1.6	7/25.1	7/36.9	

<sup>/</sup> Product groups include more items than those listed in this table. For example, in addition to the products listed—Choice beef, lamb, and pork (major products except lard)—the meat products group include lower grades of beef, the minor edible pork products, and veal. 2/ Gross farm value adjusted to exclude imputed values of byproducts obtained in processing. 3/ For the bakery products group and the individual wheat products, gross farm value, byproduct allowance, not farm value, and farmer's share are based on the market price of wheat received by farmers plus the cost of the marketing certificate to millers. This cost is returned to farmers complying with the Wheat Program. 4/ Data for beef and pork have been extensively revised, for discussion of the revision see article in November 1969 issue of "Marketing and Transportation Situation." 5/ Farm product equivalents for lamb have been revised to allow for loss through pilferage, spoilage, dehydration and refacing and economic losses incurred through selling cuts in a lower-priced form or at special low prices because of quality deterioration. 6/ Based on market price of corn received by farmers; no allowance made for price support payment received by farmers who comply with the Federal Feed Grain Program. 7/ Net farm value adjusted for Government payments to producers was 28-2 cents, farm-retail spread adjusted for Government processor tax was 34-2 cents, farmer's share of retail cost based on adjusted farm value was 47 percent.

# U.S. Department of Agriculture Washington, D.C. 20250

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